



DEPARTMENT OF CONSERVATION  
STATE OF CALIFORNIA

December 5, 2002

NOTICE

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GRAY DAVIS  
GOVERNOR

**To:** All Interested Parties

**Subject:** Biannual Report of Beverage Container Sales, Returns, Redemption, and Recycling Rates

Under Public Resources Code Section 14551, the Department of Conservation (Department) is required to report biannually on the redemption and recycling rates for each six-month period within 130 days of the close of that period. Enclosed please find the Biannual Report of Redemption and Recycling Rates for the first half of the 2002 calendar year. In addition, we have enclosed information on annual redemption and recycling rates from 1998 through the close of 2001.

The overall beverage container recycling rate is 64 percent and the aluminum recycling rate is 79 percent. The #1 PET plastic recycling rate is 41 percent and #2 HDPE plastic recycling rate is 44 percent. The recycling rate for glass is 59 percent and the bimetal rate is 1 percent. The #5 PP recycling rate is 3 percent. The recycling rates for other plastics are #3 PVC at 1 percent, #4 LDPE at 0 percent, #6 PS at .01 percent, and #7 other at .17 percent.

If you have any questions about this report, please contact me or Jim Ferguson, Assistant Director for the Division of Recycling, at (916) 323-3836.

Darryl Young  
Director

Enclosures



Table 1  
December 5, 2002

# Biannual Report of Beverage Container Sales, Returns, Redemption & Recycling Rates

RATES			CONTAINERS			
ALUMINUM	Redemption	Recycling	Sales*	Recycled	Refillable	Postfilled
JAN - JUNE 2002	79	79	4,303,156,814	3,378,585,046	0	36,679,346
JULY - DEC 2001	70	70	5,229,928,476	3,674,003,411	0	43,996,536
JAN - JUNE 2001	80	80	4,196,752,969	3,362,768,981	0	31,407,467
JULY - DEC 2000	70	70	5,330,813,136	3,722,519,545	0	34,015,256
JAN - JUNE 2000	87**	87**	4,190,896,382	3,364,450,175	0	39,844,204
GLASS						
JAN - JUNE 2002	66	59	1,547,044,854	906,330,107	146,840	162,534,721
JULY - DEC 2001	57	50	1,916,863,937	949,198,970	243,260	184,157,045
JAN - JUNE 2001	68	59	1,552,645,762	919,355,723	135,192	178,210,962
JULY - DEC 2000	55	49	1,891,692,603	924,410,199	805,757	161,943,422
JAN - JUNE 2000	71**	64**	1,450,598,954	904,082,805	3,388,049	153,268,345
#1 PET						
JAN - JUNE 2002	41	41	1,982,107,978	805,230,416	0	53,267,278
JULY - DEC 2001	33	32	2,363,231,556	764,118,077	0	59,509,567
JAN - JUNE 2001	41	40	1,669,529,586	671,482,950	0	53,021,598
JULY - DEC 2000	32	32	2,061,431,436	651,295,732	0	41,327,420
JAN - JUNE 2000	40**	40**	1,177,707,564	530,405,334	0	32,004,919
#2 HDPE						
JAN - JUNE 2002	126	44	207,025,906	91,726,397	0	172,752,313
JULY - DEC 2001	106	38	240,794,928	91,189,617	0	167,668,660
JAN - JUNE 2001	116	40	216,780,334	85,951,431	0	168,896,575
JULY - DEC 2000	97	24	243,801,726	57,971,952	0	181,201,586
JAN - JUNE 2000	100**	18**	141,389,515	35,271,851	0	164,586,889
#3 PVC						
JAN - JUNE 2002	1	1	1,696,523	13,616	0	940
JULY - DEC 2001	2	2	1,525,079	27,827	0	3,116
JAN - JUNE 2001	1	1	1,994,685	23,663	0	1,056
JULY - DEC 2000	3	3	1,235,149	31,609	0	5,921
JAN - JUNE 2000	2**	1**	1,024,680	14,635	0	3,594
#4 LDPE						
JAN - JUNE 2002	0	0	8,912,638	572	0	21
JULY - DEC 2001	1.05	.08	10,445,403	8,742	0	101,014
JAN - JUNE 2001	.19	.03	3,620,764	896	0	5,850
JULY - DEC 2000	.06	.05	440,603	219	0	46
JAN - JUNE 2000	.002**	.002**	453,020	10	0	0

(Continued on next page)



# Biannual Report of Beverage Container Sales, Returns, Redemption & Recycling Rates

Table 1  
December 5, 2002

RATES			CONTAINERS			
#5 PP	Redemption	Recycling	Sales*	Recycled	Refillable	Postfilled
JAN - JUNE 2002	3	3	329,181	11,109	0	76
JULY - DEC 2001	3	1	311,584	4,339	0	5,078
JAN - JUNE 2001	15	15	202,710	30,383	0	1,016
JULY - DEC 2000	24	23	338,920	79,015	0	2,528
JAN - JUNE 2000	0**	0**	472,740	11	0	0
#6 PS						
JAN - JUNE 2002	.01	.01	34,232,364	3,267	0	28
JULY - DEC 2001	.04	.01	33,475,821	1,920	0	12,955
JAN - JUNE 2001	.23	.23	16,381,131	37,839	0	900
JULY - DEC 2000	.05	.03	13,952,545	4,411	0	2,478
JAN - JUNE 2000	.49**	.49**	12,409,742	62,122	0	803
#7 OTHER						
JAN - JUNE 2002	.19	.17	8,764,828	14,536	0	2,738
JULY - DEC 2001	.14	.12	7,464,111	8,660	0	2,366
JAN - JUNE 2001	.55	.33	3,378,467	11,160	0	7,746
JULY - DEC 2000	1.06	.84	6,483,173	54,359	0	16,824
JAN - JUNE 2000	.37**	.30**	8,173,736	26,049	0	6,536
BIMETAL						
JAN - JUNE 2002	1	1	26,512,803	282,983	0	24,266
JULY - DEC 2001	1	1	25,472,416	269,414	0	79,338
JAN - JUNE 2001	1	1	22,374,473	253,706	0	85,656
JULY - DEC 2000	1.31	1.12	18,197,018	203,617	0	45,817
JAN - JUNE 2000	1.21**	1.12**	6,896,481	94,152	0	17,507
ALL MATERIALS						
JAN - JUNE 2002	66	64	8,119,783,889	5,182,198,050	146,840	425,261,726
JULY - DEC 2001	58	56	9,829,513,311	5,478,830,976	243,260	455,535,674
JAN - JUNE 2001	68	66	7,683,660,881	5,039,916,731	135,192	431,638,827
JULY - DEC 2000	58	56	9,568,386,309	5,356,570,659	805,757	418,561,300
JAN - JUNE 2000	72**	70**	6,990,022,814	4,834,407,144	3,388,049	389,732,797

## CALCULATION OF REDEMPTION AND RECYCLING RATES

A = number of empty beverage containers returned      **Redemption Rate** =  $\frac{A + B + [C - (0.05 \times (A + B))]}{D}$

B = refillables returned

C = postfilled food or drink packaging containers returned      **Recycling Rate** =  $\frac{(A+B)}{D}$       (The value in brackets [ ] is included only when greater than zero.)

D = number of beverage containers sold

CONTAINER PER POUND RATES (CRV/POSTFILLED)	ALUMINUM	GLASS	#1 PET	#2 HDPE	#3 PVC	#4 LDPE
JAN - JUNE 2002	29.6/33.21	1.86/.99	10.9/5.4	5.1/5.15	11.5/NA	42.7/NA
CONTAINER PER POUND RATES (CRV/POSTFILLED)	#5 PP	#6 PS	#7 OTHER	BIMETAL		
JAN - JUNE 2002	9.0/NA	69.8/NA	4.8/NA	5.9/NA		

**FOOTNOTE:** \* Because of the delay between the time a container is distributed for sale and the time it is returned for recycling, the Department has determined the average "return time" as two months. The sales shown reflect this lag.

\*\* Due to the addition of new beverages on January 1, 2000 from the passage of SB 332, the calculation of the redemption and recycling rates was based, for this period only, on the sales and return data reported from March - June 2000. This is to account for the two month sales lag. However, the totals for the sales, recycled, refillable and postfilled columns are for January - June 2000. Due to varying sales and redemption patterns, the recycling and redemption rates for the four-month period of March through June 2000 cannot be compared with the January through June period normally reported in biannual reports.

# CALENDAR YEAR - REDEMPTION AND RECYCLING RATES

Table 2  
May 23, 2002



Rates			Containers				1 of 3
ALUMINUM	Redemption	Recycling	Sold	Recycled	Refillable	Postfilled	
2001	75	75	9,426,681,445	7,036,772,391	0	75,404,003	
2000	76*	76*	9,521,709,518	7,086,969,721	0	73,859,460	
1999	80	80	9,189,990,393	7,348,438,576	0	155,372,430	
1998	80	80	9,273,717,898	7,381,508,007	0	178,559,988	
1997	80	80	9,192,062,677	7,391,944,684	0	206,552,057	
1996	80	80	9,046,339,201	7,257,109,422	0	157,451,082	
1995	84	84	8,996,915,732	7,565,437,626	0	293,381,456	
1994	82	82	9,640,060,625	7,859,363,654	0	150,118,131	
1993	84	84	9,473,124,532	7,926,540,025	0	214,496,528	
1992	85	85	9,849,092,574	8,378,479,015	0	204,306,718	
1991	85	85	9,735,460,863	8,235,715,915	0	170,214,314	
1990	76	76	9,859,752,871	7,478,135,392	0	153,794,134	
1989	64	64	9,231,958,871	5,940,283,700	0	49,407,050	
1988	62	61	8,829,125,615	5,416,522,775	0	358,327,175	
GLASS							
2001	62	54	3,469,509,699	1,868,554,693	378,452	362,368,007	
2000	60*	54*	3,342,291,557	1,828,493,003	4,193,806	315,211,767	
1999	71	60	2,699,056,360	1,563,428,698	56,547,053	381,756,617	
1998	75	63	2,547,082,395	1,533,478,471	78,152,008	379,486,791	
1997	79	67	2,488,007,100	1,575,406,811	90,836,718	383,973,447	
1996	82	69	2,432,063,268	1,574,020,543	102,421,509	400,541,247	
1995	86	74	2,477,905,727	1,731,621,270	111,828,496	376,815,597	
1994	84	73	2,554,889,789	1,735,423,078	125,310,440	384,421,672	
1993	86	75	2,524,975,195	1,753,023,220	147,140,942	369,469,526	
1992	95	72	2,638,669,944	1,718,900,206	168,996,240	718,914,546	
1991	85	71	2,837,961,367	1,802,801,890	198,954,148	508,723,118	
1990	60	57	3,252,914,365	1,644,555,614	215,792,631	183,272,912	
1989	45	40	3,136,247,664	945,069,624	304,045,641	216,179,258	
1988	44	35	3,165,716,125	664,948,766	441,803,396	324,349,294	
#1 PET							
2001	37	36	4,032,761,142	1,435,601,027	0	112,531,165	
2000	34*	34*	3,239,139,000	1,181,701,068	0	73,332,339	
1999	79	65	1,278,411,247	829,974,260	0	223,909,692	
1998	69	57	1,284,678,834	731,421,805	0	193,778,325	
1997	69	58	1,206,774,464	698,322,157	0	168,565,032	
1996	69	59	1,028,068,545	607,521,858	0	127,904,829	
1995	74	64	760,783,391	488,882,966	0	99,011,197	
1994	80	71	605,667,834	429,468,272	0	77,573,604	
1993	76	70	577,329,580	403,344,084	0	58,323,616	
1992	75	68	549,907,144	371,540,845	0	58,814,794	
1991	58	56	530,597,819	299,758,173	0	20,829,383	
1990	31	31	558,856,452	171,828,692	0	8,298,647	
1989	7	7	556,680,692	37,863,612	0	1,221,987	
1988	5	4	560,093,605	24,327,749	0	2,971,618	

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<b>Rates</b>	<b>Containers</b>	<b>2 of 3</b>
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#2 HDPE	Redemption	Recycling	Sold	Recycled	Refillable	Postfilled
2001	110	39	457,575,262	177,141,048	0	336,565,235
2000	98*	22*	385,191,241	93,243,804	0	345,788,475
<b>#3 PVC</b>						
2001	2	1	3,519,764	51,490	0	4,172
2000	2*	2*	2,259,829	46,244	0	9,514
<b>#4 LDPE</b>						
2001	.82	.07	14,066,167	9,638	0	106,864
2000	.03*	.03*	893,623	228	0	47
<b>#5 PP</b>						
2001	8	7	514,294	34,721	0	6,094
2000	10*	10*	811,660	79,025	0	2,529
<b>#6 PS</b>						
2001	.10	.08	49,856,952	39,758	0	13,855
2000	.25*	.25*	26,362,287	66,534	0	3,281
<b>#7 OTHER</b>						
2001	.27	.18	10,842,578	19,820	0	10,112
2000	.67*	.54*	14,656,909	80,409	0	23,362
<b>BIMETAL</b>						
2001	1	1	47,846,889	523,120	0	164,993
2000	1*	1*	25,093,499	297,767	0	63,323
1999	11	11	2,270,648	260,797	0	15,370
1998	13	13	2,088,892	264,603	0	10,246
1997	19	19	2,252,193	432,794	0	27,375
1996	17	17	2,230,519	388,095	0	29,890
1995	21	21	2,268,190	484,539	0	21,375
1994	17	17	2,506,373	430,610	0	10,470
1993	19	19	3,655,432	683,945	0	16,945
1992	12	12	6,453,684	796,519	0	42,330
1991	14	14	6,353,803	878,207	0	59,958
1990	3	3	10,529,837	314,760	0	34,415
1989	2	2	10,643,975	199,890	0	354,570
1988	0.17	0.17	7,683,421	13,237	0	300

ALL MATERIALS						
2001	62	60	17,513,174,192	10,518,747,707	378,452	887,174,501
2000	62*	61*	16,558,409,123	10,190,977,803	4,193,806	808,294,098
1999	76	74	13,169,728,648	9,742,102,332	56,547,053	761,054,109
1998	76	74	13,107,568,019	9,646,672,886	78,152,008	751,835,350
1997	78	76	12,889,096,434	9,666,106,446	90,836,718	759,117,911
1996	78	76	12,508,701,533	9,439,039,918	102,421,509	685,927,048
1995	83	81	12,237,873,040	9,786,426,401	111,828,496	769,229,625
1994	80	79	12,803,124,621	10,024,685,614	125,310,440	612,123,877
1993	82	81	12,579,084,739	10,083,591,274	147,140,942	642,306,615
1992	85	82	13,044,123,346	10,469,716,585	168,996,240	982,078,388
1991	82	80	13,110,373,852	10,339,154,185	198,954,148	699,826,773
1990	70	70	13,682,053,525	9,294,834,458	215,792,631	345,400,108
1989	56	56	12,935,531,202	6,923,416,826	304,045,641	267,162,865
1988	55	52	12,562,618,766	6,105,812,527	441,803,396	685,648,387

*\*\*Due to the addition of new beverages on January 1, 2000 from the passage of SB332, the calculation of the redemption and recycling rates for 2000 was based on the sales and return data reported from March - December 2000. This is to account for the two month sales lag. However, the totals for the sales, recycled, refillable and postfilled columns are for January - December 2000.*